Finally Getting to Outcomes

Washington State Department of Health Tobacco Prevention & Control Program

Joint Conference on Health October 2002

Presentation Objectives

- Describe goals and results of early implementation of the Washington State
 Tobacco Control Program
- Describe the framework and rationale for the state's Tobacco Control Program
- Identify areas where further improvement is needed to reach populations of disparity

Program Evolution

- 1999: Tobacco Control Council convened
- **2000:** Program funded at \$15 Million
- Mid-2000: School and Community programs funded
- October 2000: Media campaign launch
- November 2000: Quit Line launch
- January 2002: Tax increase at \$.60 per pack
- July 2002: Program funded at \$26.2 Million

Guiding Principles

- Science-based activities
- Based on CDC goals
- Fluid and flexible funding for continuous improvement
- Targeted toward:
 - Adults interested in quitting
 - All youth
 - Pregnant women
- Build on Washington's existing prevention infrastructure
- Maintain Washington's tobacco prevention partnerships

Program Components

- Community-based Programs
- School-based Programs
- Public Awareness & Education
- Cessation Programs
- Statewide Policy & Enforcement
- Assessment & Evaluation

Over-arching Program Goals

- Reduce tobacco use and exposure among high-level target groups:
 - Adults
 - Youth
 - Pregnant Women

Specific Program Goals

- Prevent initiation of tobacco use
- Increase cessation among current users
- Reduce secondhand smoke exposure
- Eliminate tobacco-related health disparities

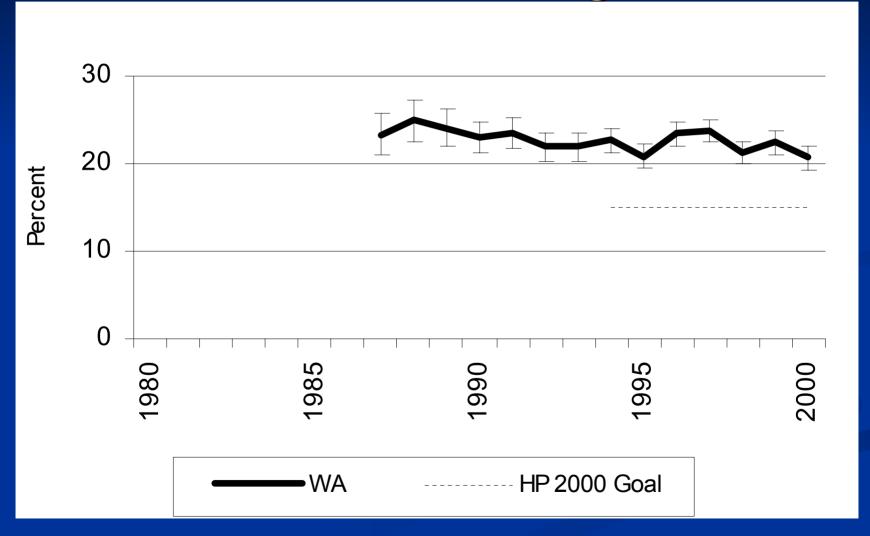
Program Objectives

ADULTS

Reduce current smoking by a proportion of 3% per year, so that the 2010 BRFSS finds a prevalence of 16.5% or less.

"Current smoker": has smoked at least 100 cigarettes in lifetime, and reports currently smoking "some days" or "every day"

Adults – historical trend Current Smoking



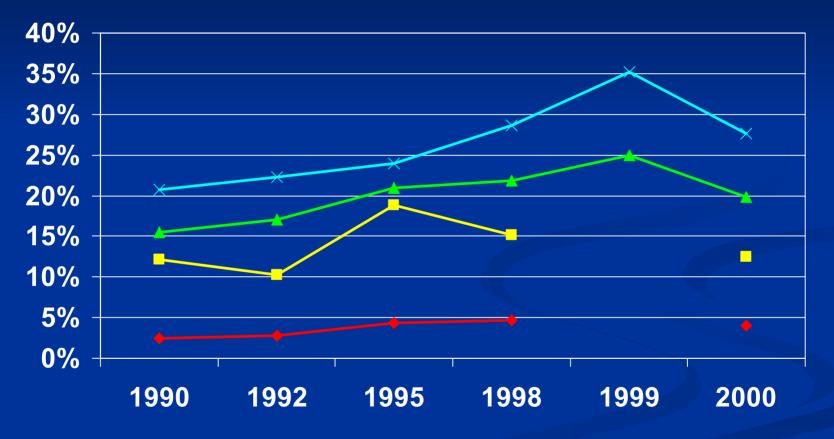
Program Objectives (cont.)

YOUTH

Reduce the *proportion* of youth in 10th and 12th grade who currently smoke by 2% per year, so that a school-based survey [Healthy Youth Survey] in 2010 finds prevalences of 16.2% and 22.6% or less, respectively.

"Current smoker": has smoked cigarettes on one or more of the past 30 days

Youth - Historical Trends Current Smoking



→ 6th grade → 8th grade → 10th grade → 12th grade

Source: 1990 Student Alcohol & Drug Use Survey (SADUS) – OSPI; 1992, 1995, 1998, 2000 Washington State Survey of Adolescent Health Behaviors (WSSAH) – OSPI, DOH, et. al; 1999 Washington State Youth Risk Behavior Survey (YRBS) – DOH.

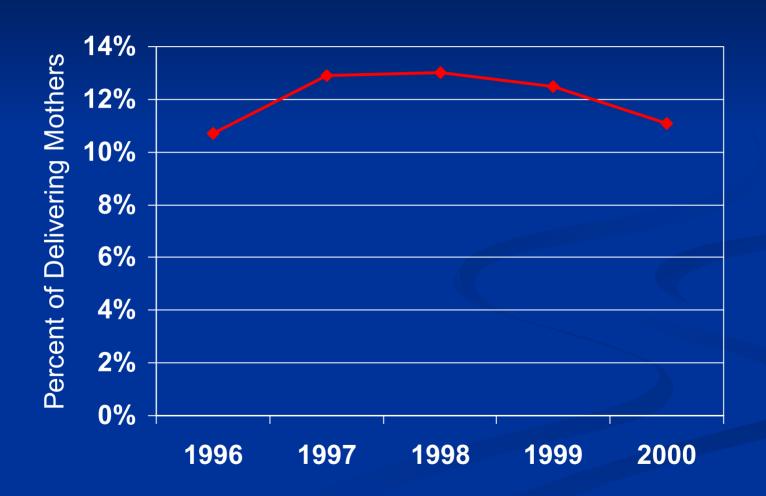
Program Objectives (cont.)

PREGNANT WOMEN

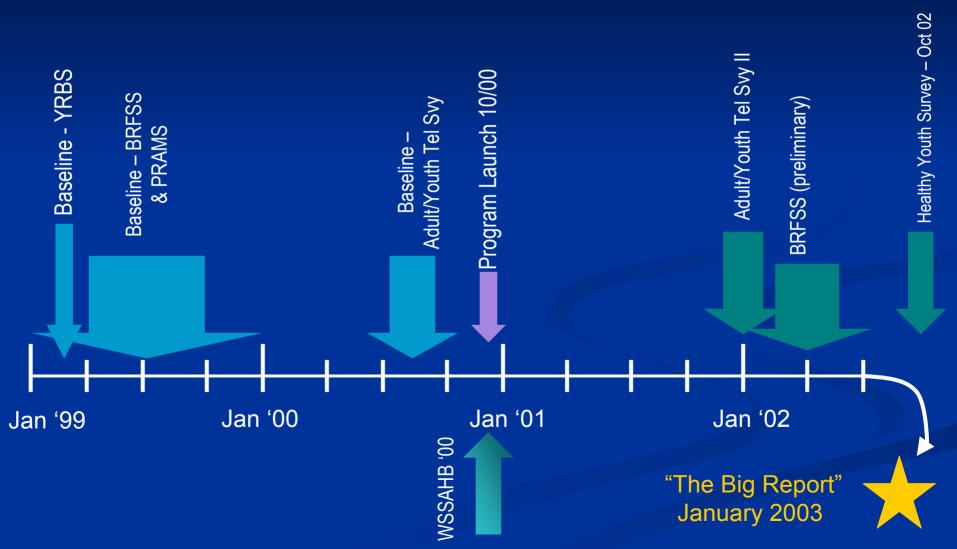
Reduce the *proportion* of women who smoke during pregnancy, so that the 2010 PRAMS finds a prevalence of 8.0% or less.

"Smoker": Reports smoking any amount during the third trimester of pregnancy.

Pregnant Women — Historical Trend Smoking during pregnancy



Measuring Success



Communicating Outcomes

- 2001 Legislative report described the Strategic Plan
- 2002 Legislative report described process indicators/outputs
- 2003 Legislative report to describe highlevel goal progress Adult, Youth, Pregnant Women (as well as a number of intermediate outcomes)

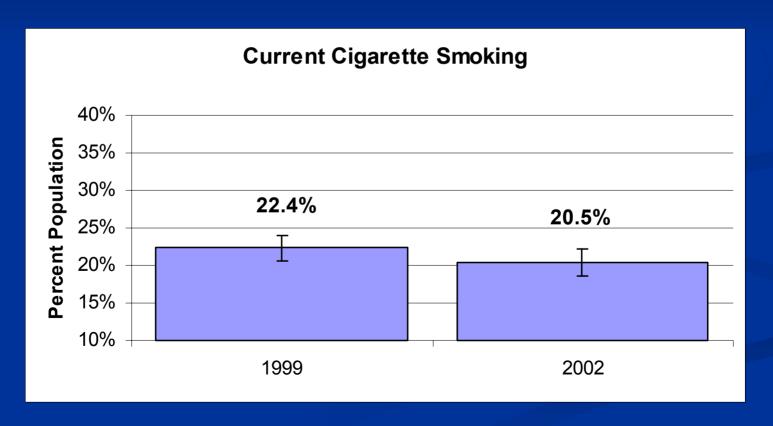
Data Sources

	BRFSS	ATS
	"Brr-fuss"	"Adult Tobacco Survey"
Mode	Random-digit-dialed Phone Survey	Random-digit-dialed Phone Survey
Time	Ongoing, since 1987	Fall 2000, Late 2001-early 2002, Fall 2002
Size	About 4,000 per year (big)	About 10,000 per survey (bigger)
Collects	Small numbers of tobacco questions (cigarette use, smokeless, some quitting, some SHS)	Large numbers of many tobacco questions (all types)
Uses	Surveillance for a variety of health behaviors, "Gold standard" for measuring tobacco use in WA; national comparisons	Designed specifically to evaluate the tobacco program, allows sub-group comparisons (counties, race/ethnic groups)
Limits	Does not have enough 'power' for subgroup analysis, does not have much specific tobacco information	'Point-in-time' methodology creates problems for time-dependent fluctuations, response bias for tobacco users
Funding	Sponsored and partially funded by CDC, as well as a variety of DOH programs (including TPCP)	Designed and funded by the TPCP

"The Number"

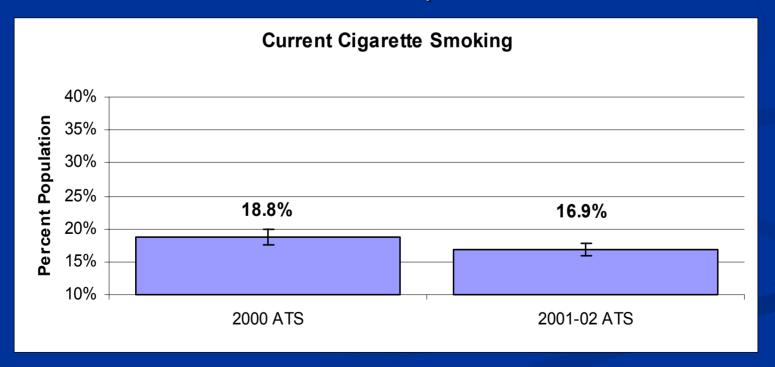
Overall Results

- Pre & post program launch comparison using BRFSS
- ~2% absolute decrease overall
- ~8% fewer smokers



Overall Results "The Number" revisited

- Different prevalence numbers, but same story for results
- We know that there is an under-reporting bias here, but the relative differences are important



Measuring the Change

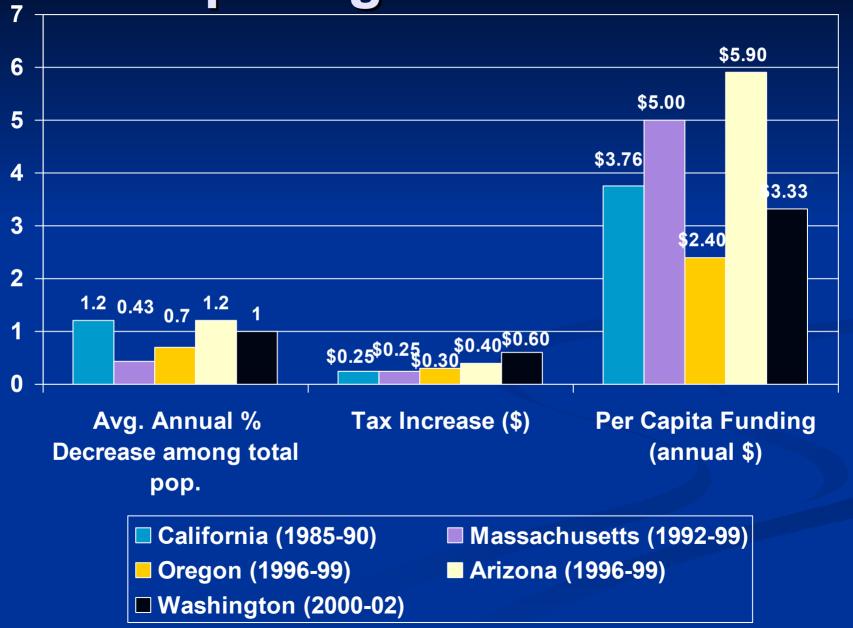
- Nearly a two percentage point reduction in current cigarette smoking among adults found in two separate surveys of state residents
- More than 8% fewer smokers in Washington
- More than 83,000 fewer smokers in Washington

 people who have quit or have not started
 smoking
- Current national BRFSS data aren't published yet, but there was a slight national increase from 1999-2000 (so maybe we are doing better than average)

Future Impacts

- About 27,000 early deaths prevented
 - Because about 1/3 of smokers die an average of 13 years earlier than expected (due to tobacco-related illnesses), and quitting results in immediate health benefits
- About \$134 million in future healthcare savings for the state
 - Because the average savings in future medical care is \$12,000 and about 13.5% of that cost is borne by Medicaid and other state healthcare programs

Comparing to other states



Comparing to other states

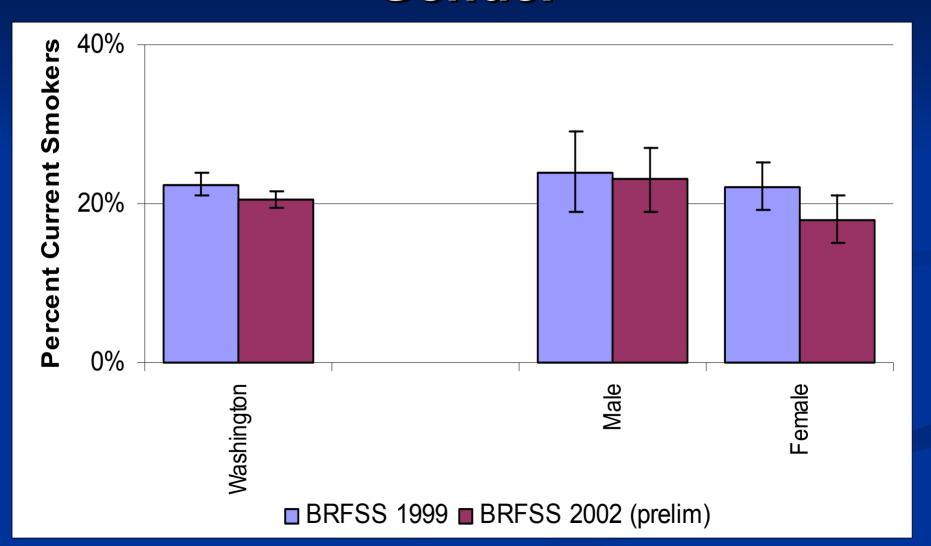
 We set original goals based on success seen in other states (3% fewer smokers per year)

We have met those goals

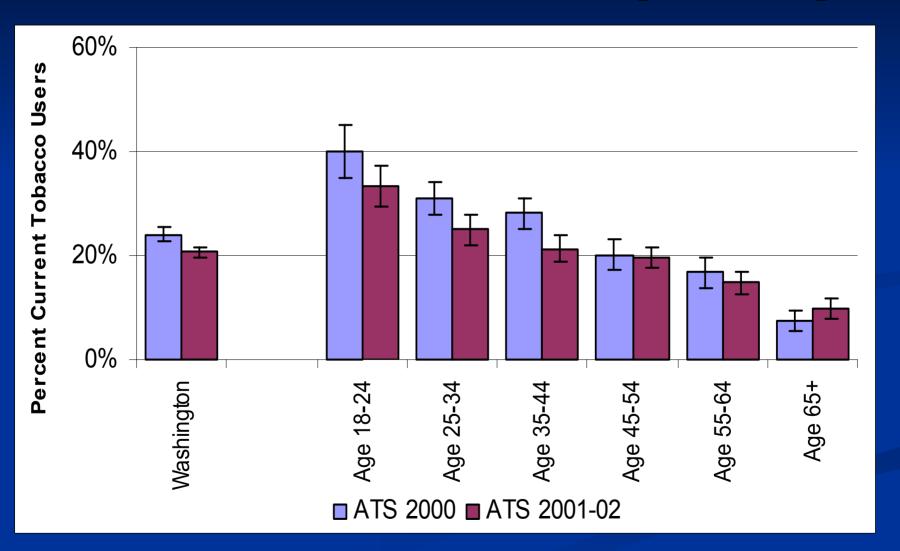
Washington's results are similar to those seen in other states with similar funding levels and approaches

Subgroups

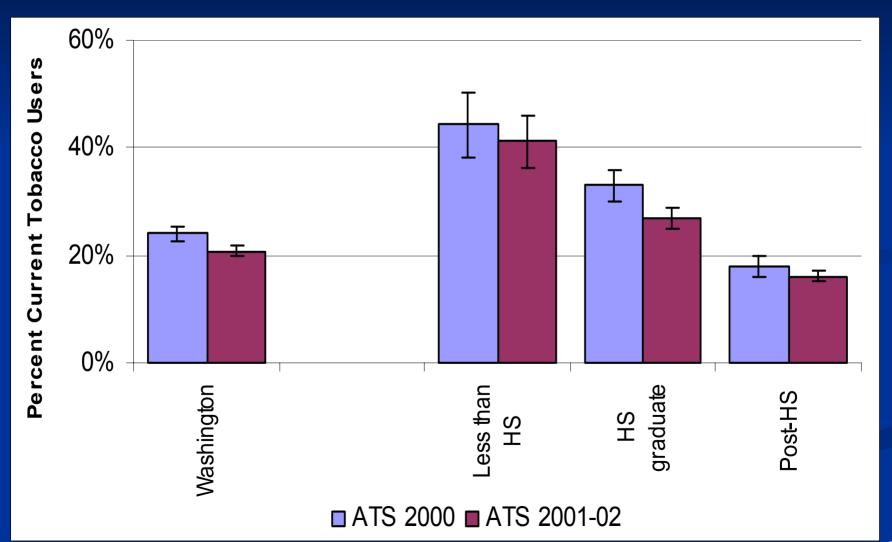
Population Group Changes - Gender



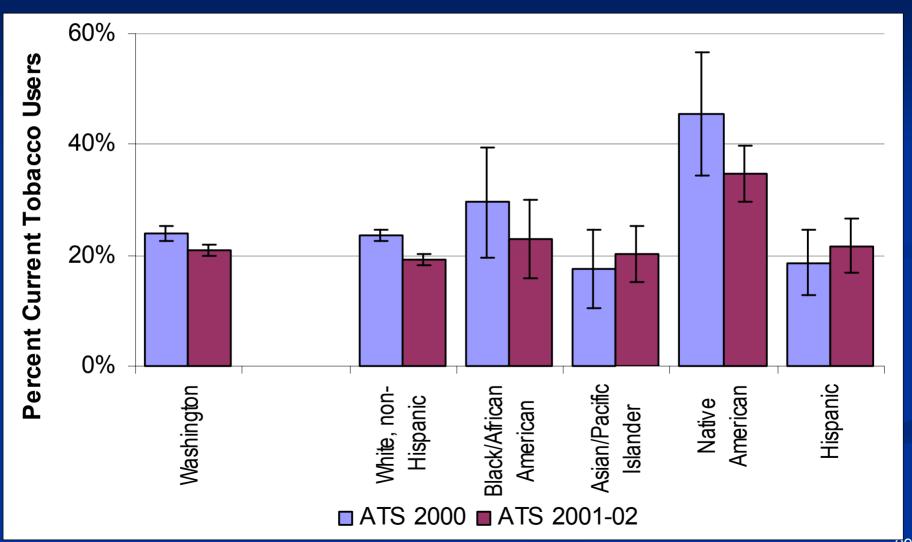
Population Group Changes - Age



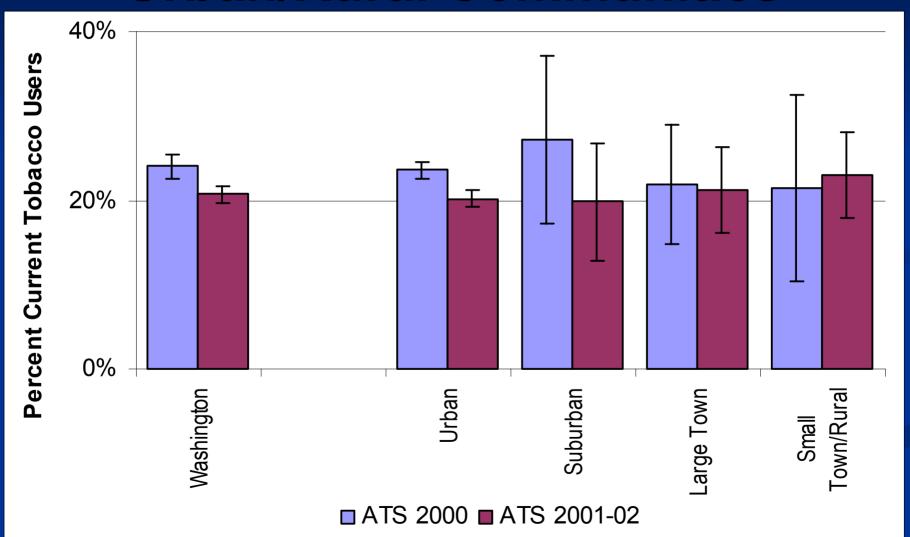
Population Group Changes - Education



Population Group Changes - Race

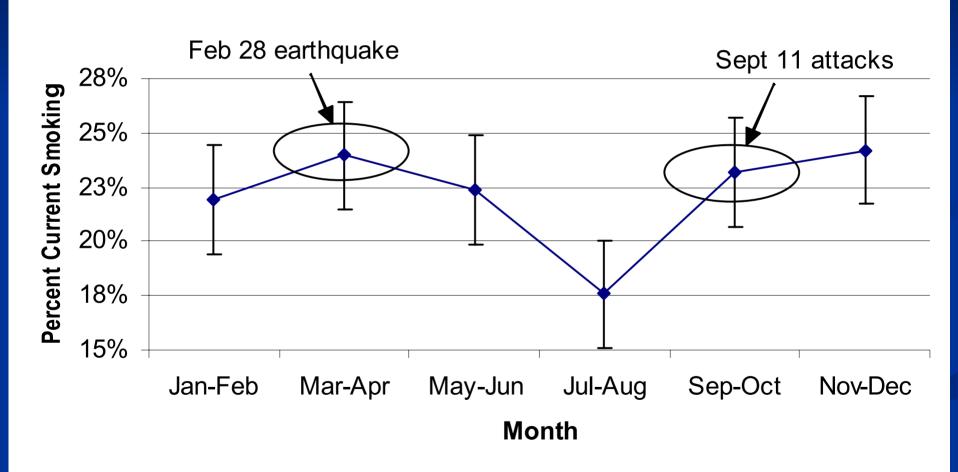


Population Group Changes – Urban/Rural Communities



"Social Climate" lssues

"Significant Events" in 2001



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Taxes

Initiative I-773

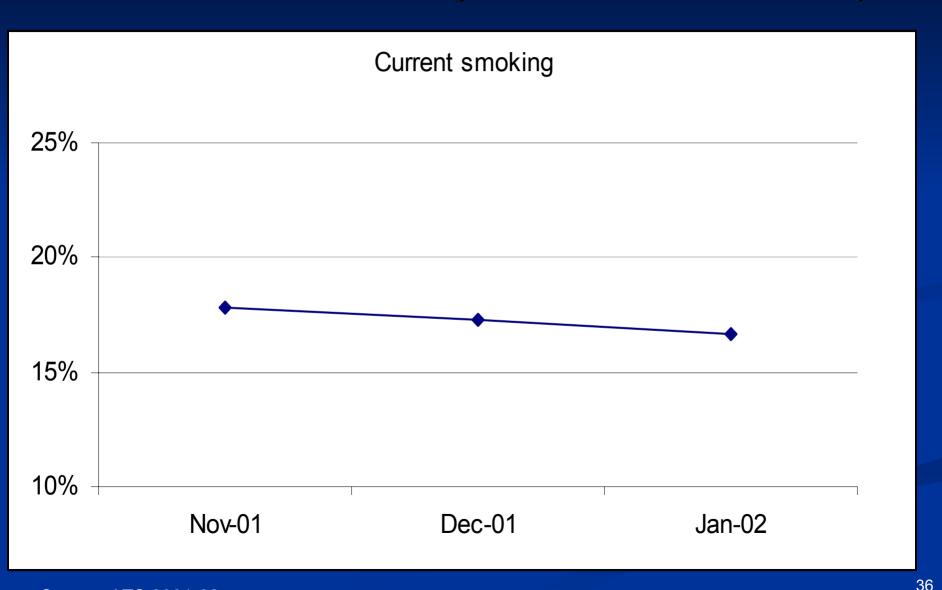
- The average cost of a pack of cigarettes in Washington was increased by a \$.60 tax, to about \$5, on January 1, 2002
- For every 10% increase in cost, a 4% decrease in consumption is predicted (as seen from tax increases in other states) this is the "price elasticity" of cigarettes

What was the effect?

- An increase of \$.60 above the original mean cost is approximately a 14% increase
- Based on research, we would expect to observe approximately a 4-6% decrease in consumption overall in WA as a result of the increase
- Consumption is a measure of "cigarettes per person" (all adults) – changes in consumption are an effect of both people "cutting down" and "quitting"
- Around half of the decrease in consumption is due to "quitters" and half to "reducers"
- A real but small decrease in prevalence would be observed as a result (we estimate less than one percentage point)

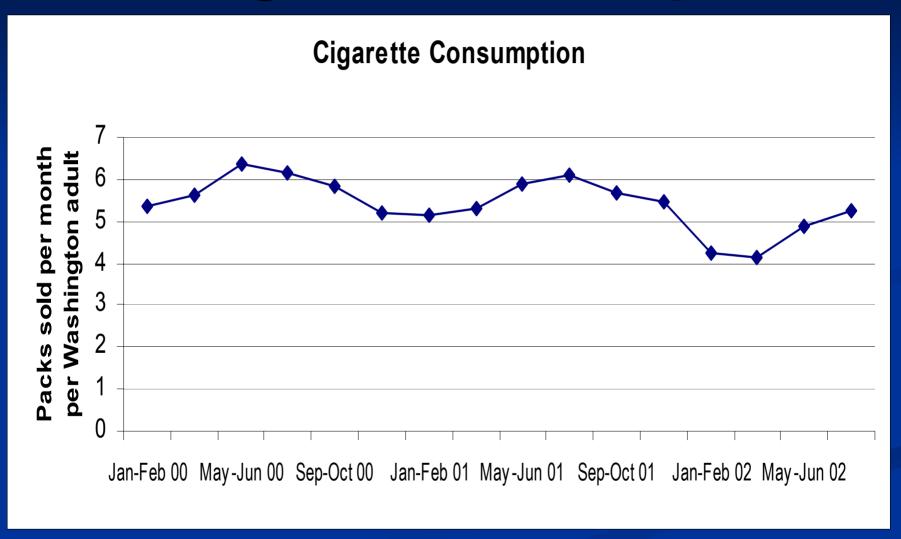
Taxes helped, but didn't do everything

The rate of decline in smoking was constant into the new year



2001-02

Changes in Consumption



The Big Picture on Taxes

Increasing the cost of tobacco is recommended by CDC as part of a comprehensive, integrated statewide approach to tobacco control – the observed change in behavior is greater than the effect of either a tax increase or a statewide tobacco control program individually

Future Directions

- Continued analysis of existing and new data sources to identify successful communities, and describe their comprehensive program implementation
- Continued consideration of demographic and societal influences on program success
- Ongoing program improvement

Thank you!

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